(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 15 September 2005 (15.09.2005)

PCT

(10) International Publication Number WO 2005/084572 A2

A61B 19/00 (51) International Patent Classification⁷:

(21) International Application Number:

PCT/GB2005/000855

(22) International Filing Date: 7 March 2005 (07.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

5 March 2004 (05.03.2004) 0405013.4 GB 60/575,364 1 June 2004 (01.06.2004)

- (71) Applicants (for all designated States except US): DEPUY INTERNATIONAL LTD [GB/GB]; St Anthony's Road, Beeston, Leeds LS11 8DT (GB). DePUY Orthopädie Gmbh [DE/DE]; Ammerthalstr. 3, 85551 Heimstetten (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): REVIE. Ian [GB/GB]: Tutt House, New Row, Boroughbridge Y051 9AX (GB). ASHBY, Alan [GB/GB]; 19 Clifton Green, York YO30 6LN (GB). NITZAN, Yaacov [IL/IL]; 22 Herbert Samuel Rd, Tel-Aviv (IL). GIBBONS, Paul [GB/GB]; Stonegarth Cottage, 29 Main Street, Addingham, Ilkley LS29 0PD (GB). STUNGO, Ben [GB/GB]; 4 Claremount, Leeds, LS6 4EF (GB). BUTCHER, Robert [GB/GB]; 1 Plantation Avenue, Alwoodley, Leeds LS17 8TB (GB). PATTERSON, Tom [GB/IE]; Knockagh, Hackballscross, Dundalk, Co Louth (IE). BALDEWEIN, Jury [DE/DE]; DePuy I-Orthopaedics, Ammerthalstr. 3,

85551 Heimstetten (DE). BROOKS, James [GB/GB]; DePuy International Ltd, Number One, White Rose Office Park, Millshaw Park_Lane, Leeds LS11 0EA (GB).

- (74) Agent: ALTON, Andrew; Urguhart-Dykes & Lord LLP, Tower North Central, Merrion Way, Leeds LS2 8PA (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: An implantable marker, instruments for implanting the marker and method for implanting the marker are described. The implanta+e marker comprises a housing with an outer surface providing a bone anchor and having a cavity within which a marker detectable by a tracking system is secured. The kit includes a guide instrument having a guide channel for receiving an implanta+e marker, an insertion tool receivable within the channel and having a distal end for releasably engaging an implanta+e marker, and an implanta+e marker receiva+e within the channel. The insertion tool is operable to drive the implanta+e marker into the bone. The method includes puncturing the skin with an instrument, driving the implanta+e marker into the bone and withdrawing the instrument, leaving the marker implanted within the bone.

